

**Iowa Department of Natural Resources  
Title V Operating Permit**

**Name of Permitted Facility: John Deere Dubuque Works**

**Facility Location: 18600 South John Deere Road  
Dubuque, Iowa 52004**

**Air Quality Operating Permit Number: 01-TV-021-M004**

**Expiration Date: July 9, 2006**

**EIQ Number: 92-1315**

**Facility File Number: 31-01-009**

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**Responsible Official**

**Name: James A. Schrempf**

**Title: General Manager**

**Mailing Address: 18600 South John Deere Road  
Dubuque, IA 52004**

**Phone #: 563/589-6213**

**Permit Contact Person for the Facility**

**Name: Loras J. Kluesner**

**Title: Environmental Engineer**

**Mailing Address: 18600 South John Deere Road  
Dubuque, IA 52004**

**Phone #: 563/589-6133**

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This permit is issued in accordance with 567 Iowa Administrative Code Chapter 22, and is issued subject to the terms and conditions contained in this permit.

**For the Director of the Department of Natural Resources**

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Douglas A. Campbell, Supervisor of Air Operating Permits Section

Date

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## **Abbreviations**

acfm.....	actual cubic feet per minute
CFR.....	Code of Federal Regulation
EIQ.....	emissions inventory questionnaire
°F.....	degrees Fahrenheit
gal/hr.....	gallons per hour
gr/dscf.....	grains per dry standard cubic foot
gr/100 cf.....	grains per one hundred cubic feet
IAC.....	Iowa Administrative Code
IDNR.....	Iowa Department of Natural Resources
in/min.....	inches per minute
lb/hr.....	pounds per hour
lb/MMBtu.....	pounds per million British thermal units
Mcf/hr.....	thousand cubic feet per hour
MMcf/hr.....	million cubic feet per hour
MSDS.....	material safety data sheets
MVAC.....	motor vehicle air conditioner
N/A.....	not applicable
NSPS.....	new source performance standard
ppmv.....	parts per million by volume
scfm.....	standard cubic feet per minute
TPY.....	tons per year
TPH.....	tons per hour
USEPA.....	United States Environmental Protection Agency
VMT/hr.....	vehicle miles traveled per hour

## **Pollutants**

PM.....	particulate matter
PM <sub>10</sub> .....	particulate matter ten microns or less in diameter
SO <sub>2</sub> .....	sulfur dioxide
NO <sub>x</sub> .....	nitrogen oxides
VOC.....	volatile organic compound
CO.....	carbon monoxide
HAP.....	hazardous air pollutant

# I. Facility Description and Equipment List

Facility Name: John Deere Dubuque Works

Permit Number: 01-TV-021-M004

Facility Description: Manufacture of Construction Machinery

Equipment List		
Emission Point Number	Associated Emission Unit(s) Number(s)	Associated Emission Unit Description
1-DKK-1	1-DKK	X-1 Pattern Shop
1-DSP-1	1-DSP	Parts and Vehicle Touchup Paint Booth
C2-DSP-1	1-DSP	Parts and Vehicle Touchup Paint Booth
C2-DSP-2	1-DSP	Parts and Vehicle Touchup Paint Booth
1-GAA-1F	1-GAA	Adhesive Assembly
1-GCS-1F	1-GCS	Miscellaneous Solvent Usage
1-GHG-1F	1-GHG	Factory Gas Usage
1-GNA-1F	1-GNA	Aerosol Can Usage
1-DQU-1	1-GQE	Engine Portable Wind Tunnel
10-DQE-1	1-GQE	Engine Test Cell X2-10
11-DQE-1	1-GQE	Engine Test Cell X3-1
12-DQE-1	1-GQE	Engine Test Cell X3-2 (East)
13-DQE-1	1-GQE	Engine Test Cell X3-2 (West)
14-DQE-1	1-GQE	Engine Test Bay X3-3 (East)
15-DQE-1	1-GQE	Engine Test Bay X3-3 (West)
16-DQE-1	1-GQE	Engine Test Bay X3-4
17-DQE-1	1-GQE	Engine Test Bay X4-1
18-DQE-1	1-GQE	Engine Test Bay X4-2
19-DQE-1	1-GQE	Engine Test Bay X4-3
20-DQE-1	1-GQE	Engine Cold Room Cell X4-4
21-DQE-1	1-GQE	Engine Wind Tunnel Cell X4-5
3-DQE-1	1-GQE	Engine Test Cell X2-3
4-DQE-1	1-GQE	Engine Test Cell X2-4
5-DQE-1	1-GQE	Engine Test Cell X2-5
6-DQE-1	1-GQE	Engine Test Cell X2-6
7-DQE-1	1-GQE	Engine Test Cell X2-7
8-DQE-1	1-GQE	Engine Test Cell X2-8
1-GSR-1F	1-GSR	Anti-Rust Spray Application
1-GWA-1F	1-GWA	Production Welding
1-PSA-1	1-PSA1	Brake Bonding Booth

1-PDA-1	1-PSA2
1-PWA-1	1-PWA
1-PXP-1F	1-PXP
1-UBC-1S	1-UBC
1-UBC-2	1-UBC
1-WBB-1V	1-WBB
1-UBP-1F	1-UBP1
1-UUE-1	1-UUE
C1-UUS-2	1-UUS(1)
C1-UUS-2	1-UUS(2)
C1-UUS-2	2-UUS(1)
C1-UUS-2	2-UUS(2)
C1-UUS-2	3-UUS(1)
C1-UUS-2	3-UUS(2)
C1-UUS-2	4-UUS
1-UUS-1B	1-UUS(1)
4-UUS-1B	4-UUS
1-UUW-1	1-UUW
1-WBV-1F	1-WBV
1-WNA-1	1-WNA
17-PSP-1	17-PSP
17-PSP-2	17-PSP
18-PSP-1	18-PSP
18-PSP-2	18-PSP
10-PDF-1	10-PDF
10-PDF-2	10-PDF
2-PQU-1	2-PQU
6-PQU-1	6-PQU
7-PQU-1	7-PQU
8-PQU-1	8-PQU
10-PQU-1	10-PQU
12-PQU-1	12-PQU
13-PQU-1	13-PQU
14-PQU-1	14-PQU
1-PCA-1	1-PCA
12-PCA-1F	12-PCA
18-PCA-1F	18-PCA
18-UVM-1F	18-UVM
19-PSP-1	19-PSP
19-PSP-2	19-PSP
20-PSP-1	20-PSP
20-PSP-2	20-PSP
11-PDF-1	11-PDF
11-PDF-2	11-PDF
5-PQU-1	5-PQU
3-PQU-1	3-PQU

Plastilock Air Dry Cabinets  
 942-W2 Reclaim Weld Booth  
 Plasma Arc 15578  
 Ash Draw System (Standby Exhaust)  
 Ash Draw System  
 Ash Silo Vent  
 Coal Pile (fugitive)  
 Powerhouse Emergency Generator  
 #1 Boiler (Coal Combustion)  
 #1 Boiler (Natural Gas Combustion)  
 #2 Boiler (Coal Combustion)  
 #2 Boiler (Natural Gas Combustion)  
 #3 Boiler (Coal Combustion)  
 #3 Boiler (Natural Gas Combustion)  
 #4 Boiler (Coal Combustion)  
 #1 Boiler (Coal Combustion)-Bypass Stack  
 #4 Boiler (Coal Combustion)- Bypass Stack  
 #6 Fire Well  
 Landfill Haul Road (fugitive)  
 Aerosol Can Puncture Cabinet  
 Crawler Base Coat Paint Booth  
 Crawler Base Coat Paint Booth  
 Crawler Top Coat Paint Booth  
 Crawler Top Coat Paint Booth  
 186-W3 Crawler Paint Curing Oven  
 186-W3 Crawler Paint Curing Oven  
 143-W4 Crawler QA Test Module  
 187-W3 H Crawler Assembly Function Test; C-  
 187-W3 H Crawler Assembly Function Test; W-  
 187-W3 H Crawler Assembly Function Test; E-  
 143-W4 C-Series Crawler Assembly  
 158-W5 Skid Steer Fuel Station  
 158-W5 Skid Steer Assembly Function Test  
 158-W5 Skid Steer Tracking Station  
 Brake Bonding Shot Blast M12212  
 Heat Treat Shot Blast M15158  
 Skid Steer Shot Blast M16766  
 Air Makeup Unit X-21, All Weather Test Site  
 163-W1 Backhoe Prime Coat Paint Booth  
 163-W1 Backhoe Prime Coat Paint Booth  
 163-W1 Backhoe Top Coat Paint Booth  
 163-W1 Backhoe Top Coat Paint Booth  
 Backhoe Curing Oven  
 Backhoe Curing Oven  
 163-W1 Backhoe QA Test Module  
 163-W1 Backhoe Assembly PT Check

3-PQU-2	3-PQU
4-PQU-1	4-PQU
9-PQU-1	9-PQU
6-PQE-1	6-PQE
2-UUE-1	2-UUE
2-UUW-1	2-UUW
2-WBB-1	2-WBB
C6-PXF-1F	3-PXF
3-PXP-1F	3-PXP
3-UUE-1	3-UUE
4-UUE-1	4-UUE
5-UUE-1	5-UUE
6-UUE-1	6-UUE
7-UUE-1	7-UUE
8-UUE-1	8-UUE
4-PXP-1F	4-PXP
5-DWA-1	5-DWA
C6-PXF-1F	6-PXF
1-PBT-1	1-PBT
2-PBT-1	2-PBT
3-PBT-1	3-PBT
4-PBT-1	4-PBT
5-PBT-1	5-PBT
6-PBT-1	6-PBT
7-PBT-1	7-PBT
8-PBT-1	8-PBT
9-PBT-1	9-PBT
10-PBT-1	10-PBT
11-PBT-1	11-PBT
12-PBT-1	12-PBT
13-PBT-1	13-PBT
14-PBT-1	14-PBT
15-PBT-1	15-PBT
16-PBT-1	16-PBT
2-PWA-1	2-PWA
1-WTC-1	1-WTC

163-W1 Backhoe Assembly PT Check  
 163-W1 Backhoe Assembly Function Test  
 163-W1 Backhoe Assembly Tire & Bucket Mount  
 Experimental Test Engine Dynamometer Cell  
 Telephone Service Backup Generator  
 #8 Fire Well  
 C-26 Bulk Lime Delivery  
 G2 Fixture Flame Cut 13567  
 Plasma Arc 15683 (Two Torches)  
 #5 Standby Generator  
 #6 Standby Generator  
 #7 Standby Generator  
 #8 Standby Generator  
 #9 Standby Generator  
 #10 Standby Generator  
 Plasma Punch-16263  
 314-1XE Rework Weld Booth  
 G2 Flame Cut-15728 (Six Torches)  
 Bulk Storage Tank (10,000 gal.)  
 Bulk Storage Tank (10,000 gal.)  
 Bulk Storage Tank (10,000 gal.)  
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 Bulk Storage Tank (10,000 gal.)  
 W5 Reclaim Weld Booth  
 Solvent Still

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## Insignificant Equipment List

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### Insignificant Emission Unit Number

### Insignificant Emission Unit Description

1-DBT	X-18 Diesel Tank #1
1-DXT	Plasma Arc-16293
1-GQU	Product Development Repair Area
1-GVH	12 Maintenance Torpedo Heaters
1-MBT	W2 Gasoline Tank
1-MXF	Tool Room Flame Cut-14283
1-PBT	W2 Tank Farm-Tank #1
1-PQU	165-W@ Backhoe Assembly Test
1-PWT	288-H 4 Solder and Brazing Tables
1-PXL	Laser Cut-16312
1-UBT	G2-Emergency Generator Diesel Storage
1-WBC	Ash Silo Unloader
10-PXL	Laser Cut-16593
14-PCA	Plate Cleaning Shot Blast-16258
16-PCA	Plate Cleaning Shot Blast-16445
17-PCA	Plate Cleaning Shot Blast-16444
2-DBT	X-18 Diesel Tank #2
2-DXF	Product Engineering Flame Cut
2-GCS	Maintenance Solvent Parts Washers (14 Units)
2-GWA	Maintenance Welding
2-PXL	Laser Cut-16306
2-PXP	Plasma Arc-15579
2-UBT	G2-Emergency Generator Diesel Storage
2-WBC	C-26 Bulk Lime Feed
3-DBT	X-18 Gasoline Tank
3-PBD	91-V Paint Kitchen
3-PXL	Laser Cut-16405
4-PXL	Laser Cut-16410
5-PBD	186-W3 Paint Kitchen
5-PXL	Laser Cut-16493
6-PBD	163-W1 Paint Kitchen
6-PDF	Brake Bonding Oven Combustion
6-PXL	Laser Cut-16541
7-PXL	Laser Cut-16590
8-PXL	Laser Cut-16591
9-PXL	Laser Cut-16592

## II. Plant-Wide Conditions

Facility Name: John Deere Dubuque Works  
Permit Number: 01-TV-021-M004

Permit conditions are established in accord with 567 Iowa Administrative Code rule 22.108

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### Permit Duration

The term of this permit is: Five (5) years  
Commencing on: July 10, 2001  
Ending on: July 9, 2006

Amendments, modifications and reopenings of the permit shall be obtained in accordance with 567 Iowa Administrative Code rules 22.110 - 22.114. Permits may be suspended, terminated, or revoked as specified in 567 Iowa Administrative Code Rules 22.115.

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*Unless specified otherwise in the Source Specific Conditions, the following limitations and supporting regulations apply to all emission points at this plant:*

Opacity (visible emissions): 40% opacity  
Authority for Requirement: 567 IAC 23.3(2)"d"

Sulfur Dioxide (SO<sub>2</sub>): 500 parts per million by volume  
Authority for Requirement: 567 IAC 23.3(3)"e"

Particulate Matter (state enforceable only)<sup>1</sup>:

No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.

For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).

Authority for Requirement: 567 IAC 23.3(2)"a" (as revised 7/21/1999)

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<sup>1</sup> This is the current language in the Iowa Administrative Code (IAC). This version of the rule is awaiting EPA approval to become part of Iowa's State Implementation Plan (SIP). When EPA approves this rule, it will replace the older version and will be considered federally enforceable.



Particulate Matter (federally enforceable)<sup>2</sup>:

The emission of particulate matter from any process shall not exceed the amount determined from Table I, except as provided in 567 — 21.2(455B), 23.1(455B), 23.4(455B) and 567 — Chapter 24. If the director determines that a process complying with the emission rates specified in Table I is causing or will cause air pollution in a specific area of the state, an emission standard of 0.1 grain per standard cubic foot of exhaust gas may be imposed.

Authority for Requirement: 567 IAC 23.3(2)"a" (prior to 7/21/1999)

Fugitive Dust: Attainment and Unclassified Areas - No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved public roads, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance, as defined in Iowa Code section 657.1, from becoming airborne. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not limited to, the following procedures.

1. Use, where practical, of water or chemicals for control of dusts in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.
2. Application of suitable materials, such as but not limited to asphalt, oil, water or chemicals on unpaved roads, material stockpiles, race tracks and other surfaces which can give rise to airborne dusts.
3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, fertilizers or limestone.
4. Covering at all times when in motion, open-bodied vehicles transporting materials likely to give rise to airborne dusts.
5. Prompt removal of earth or other material from paved streets or to which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.

Authority for Requirement: 567 IAC 23.3(2)"c"

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**Compliance Plan**

*The owner/operator of this plant shall comply with the applicable requirements listed below. The compliance status is based on information provided by the applicant.*

Unless otherwise noted in the Emission Point-Specific Conditions, John Deere Dubuque Works is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which will become effective during the permit term, John Deere Dubuque Works shall comply with such requirements in a timely manner.

Authority for Requirement: 567 IAC 22.108(15)

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<sup>2</sup> This is the current language in the Iowa SIP, and is enforceable by EPA.

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**Title IV (Acid Rain)**

The fossil-fuel fired devices at the facility are not affected units subject to the requirements of the Acid Rain program promulgated under 40 CFR 72 through 76. This determination was made based on the information submitted by the applicant showing that all of the units did not serve a generator that produced electricity for sale during 1985 and that did not, as of November 15, 1990, and does not currently, serve as a generator that produces electricity for sale.

Authority for Requirement: 40 CFR 72.6(b)(2)

### III. Emission Point-Specific Conditions

Facility Name: John Deere Dubuque Works

Permit Number: **01-TV-021-M004**

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#### **Emission Point ID Number: 1-DKK-1**

##### Associated Equipment

Associated Emission Unit ID Number: 1-DKK

Emissions Control Equipment ID Number: 8-EMC

Emissions Control Equipment Description: Multi-Cyclone

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##### **Emission Unit Description**

Emission Unit vented through this Emission Point: 1-DKK

Emission Unit Description: X-1 Pattern Shop

Raw Material/Fuel: Wood Products

Rated Capacity: N/A

##### **Applicable Requirements**

##### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

##### **Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

## **Emission Point ID Numbers: 1-DSP-1, C2-DSP-1, C2-DSP2**

### Associated Equipment

Associated Emission Unit ID Number: 1-DSP

Emissions Control Equipment ID Numbers: 9-EFM, 10-EFM

Emissions Control Equipment Description: Polyester Filter Mats

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### **Emission Unit Description**

Emission Unit vented through these Emission Points: 1-DSP

Emission Unit Description: Parts and Vehicle Touchup Paint Booth

Raw Material/Fuel: Paint

Rated Capacity: 3.2 gal/hr

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from these emission points shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 88-A-197-S  
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 1.83 TPY

Authority for Requirement: Iowa DNR Construction Permit 88-A-197-S

#### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. Total annual paint consumption through this booth shall not exceed 1,000 gallons per 12-month rolling period, rolled monthly.

**Reporting & Record keeping:**

Records shall be kept on-site for at least five (5) years and shall be available for inspection by the Department. Records shall be maintained in legible and orderly manner and shall indicate the following:

1. A log of monthly paint usage and 12-month totals, rolled monthly.

Authority for Requirement: Iowa DNR Construction Permit 88-A-197-S

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

**Emission Point ID Number: 1-GAA-1F**

Associated Equipment

Associated Emission Unit ID Number: 1-GAA

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**Emission Unit Description**

Emission Unit vented through this Emission Point: 1-GAA

Emission Unit Description: Adhesive Assembly

Raw Material/Fuel: Adhesive

Rated Capacity: 0.145 gal/hr

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

There are no emission limits at this time.

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

**Emission Point ID Number: 1-GCS-1F**

Associated Equipment

Associated Emission Unit ID Number: 1-GCS

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**Emission Unit Description**

Emission Unit vented through this Emission Point: 1-GCS

Emission Unit Description: Miscellaneous Solvent Usage

Raw Material/Fuel: Solvents

Rated Capacity: 4.08 gal/hr

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

There are no emission limits at this time.

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

**Emission Point ID Number: 1-GHG-1F**

Associated Equipment

Associated Emission Unit ID Number: 1-GHG

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**Emission Unit Description**

Emission Unit vented through this Emission Point: 1-GHG

Emission Unit Description: Factory Gas Usage

Raw Material/Fuel: Natural Gas

Rated Capacity: 0.025 MMcf/hr

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500 ppmv

Authority for Requirement: 567 IAC 23.3(3)"e"

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"



**Emission Point ID Number: 1-GNA-1F**

Associated Equipment

Associated Emission Unit ID Number: 1-GNA

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**Emission Unit Description**

Emission Unit vented through this Emission Point: 1-GNA

Emission Unit Description: Aerosol Can Usage

Raw Material/Fuel: Aerosol Material

Rated Capacity: 3.3 cans/hr

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

There are no emission limits at this time.

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

## Emission Point ID Numbers: See Table: Product Development Testing

### Associated Equipment

Associated Emission Unit ID Number: 1-GQE

## Emission Unit Descriptions

**Table: Product Development Testing**

Emission Point Number	Emission Unit Number	Emission Unit Description	Raw Material/Fuel	Rated Capacity (gal./hr)
1-DQU-1 <sup>(1)</sup>	1-GQE	Engine Portable Wind Tunnel	Diesel	14.8 gal/hr
10-DQE-1	1-GQE	Engine Test Cell X2-10	Diesel	14.8 gal/hr
11-DQE-1 <sup>(1)</sup>	1-GQE	Engine Test Cell X3-1	Diesel	14.8 gal/hr
12-DQE-1 <sup>(1)</sup>	1-GQE	Engine Test Cell X3-2 (East)	Diesel	14.8 gal/hr
13-DQE-1 <sup>(1)</sup>	1-GQE	Engine Test Cell X3-2 (West)	Diesel	14.8 gal/hr
14-DQE-1 <sup>(1)</sup>	1-GQE	Engine Test Bay X3-3 (East)	Diesel	14.8 gal/hr
15-DQE-1 <sup>(1)</sup>	1-GQE	Engine Test Bay X3-3 (West)	Diesel	14.8 gal/hr
16-DQE-1 <sup>(1)</sup>	1-GQE	Engine Test Bay X3-4	Diesel	14.8 gal/hr
17-DQE-1 <sup>(2)</sup>	1-GQE	Engine Test Bay X4-1	Diesel	14.8 gal/hr
18-DQE-1 <sup>(2)</sup>	1-GQE	Engine Test Bay X4-2	Diesel	14.8 gal/hr
19-DQE-1 <sup>(3)</sup>	1-GQE	Engine Test Bay X4-3	Diesel	14.8 gal/hr
20-DQE-1	1-GQE	Engine Cold Room Cell X4-4	Diesel	14.8 gal/hr
21-DQE-1 <sup>(1)</sup>	1-GQE	Engine Wind Tunnel Cell X4-5	Diesel	14.8 gal/hr
3-DQE-1 <sup>(1)</sup>	1-GQE	Engine Test Cell X2-3	Diesel	14.8 gal/hr
4-DQE-1 <sup>(1)</sup>	1-GQE	Engine Test Cell X2-4	Diesel	14.8 gal/hr
5-DQE-1 <sup>(1)</sup>	1-GQE	Engine Test Cell X2-5	Diesel	14.8 gal/hr
6-DQE-1	1-GQE	Engine Test Cell X2-6	Diesel	14.8 gal/hr
7-DQE-1 <sup>(1)</sup>	1-GQE	Engine Test Cell X2-7	Diesel	14.8 gal/hr
8-DQE-1 <sup>(1)</sup>	1-GQE	Engine Test Cell X2-8	Diesel	14.8 gal/hr

<sup>(1)</sup> The cell has two stacks, but only one is used at a time.

<sup>(2)</sup> The cell has four stacks, but only two can be used at a time.

<sup>(3)</sup> The cell has five stacks, but only two can be used at a time.

## Applicable Requirements

### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from these emission points shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/ dscf  
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limit(s): 2.5 lb/MMBtu  
Authority for Requirement: 567 IAC 23.3(3)"b"(2)

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. No person shall allow, cause or permit the combustion of number 1 or number 2 fuel oil exceeding a sulfur content of 0.5 percent by weight.

Reporting & Record keeping:

The following records shall be maintained on-site for five (5) years and available for inspection upon request by representatives of the Department of Natural Resources:

1. The facility shall monitor the percent of sulfur by weight in the fuel oil as delivered. The documentation may be vendor supplied or facility generated.

Authority for Requirement: 567 IAC 23.3(3)"b"(1)

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

**Emission Point ID Number: 1-GSR-1F**

Associated Equipment

Associated Emission Unit ID Number: 1-GSR

---

**Emission Unit Description**

Emission Unit vented through this Emission Point: 1-GSR

Emission Unit Description: Anti-Rust Spray Application

Raw Material/Fuel: Rust Protective Material

Rated Capacity: 1.97 gal/hr

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

There are no emission limits at this time.

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

**Emission Point ID Number: 1-GWA-1F**

Associated Equipment

Associated Emission Unit ID Number: 1-GWA

---

**Emission Unit Description**

Emission Unit vented through this Emission Point: 1-GWA

Emission Unit Description: Production Welding

Raw Material/Fuel: Welding Electrode

Rated Capacity: 0.41 TPH

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

*See Fugitive Dust in Plant-Wide Conditions.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

**Emission Point ID Number: 1-MSP-1**

Associated Equipment

Associated Emission Unit ID Number: 1-MSP

Emissions Control Equipment ID Number: 6-EFM

Emissions Control Equipment Description: Woodfiber Filter Mat

---

**Emission Unit Description**

Emission Unit vented through this Emission Point: 1-MSP

Emission Unit Description: Carpenter Spray Paint Booth

Raw Material/Fuel: Paint

Rated Capacity: 12.6 gal/hr

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 80-A-093  
567 IAC 23.4(13)

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

## **Emission Point ID Number: 1-PSA-1**

### Associated Equipment

Associated Emission Unit ID Number: 1-PSA1  
Emissions Control Equipment ID Number: 4-EFM  
Emissions Control Equipment Description: Filter Mat

---

### **Emission Unit Description**

Emission Unit vented through this Emission Point: 1-PSA1  
Emission Unit Description: Brake Bonding Booth  
Raw Material/Fuel: Plastilock Adhesive  
Rated Capacity: 3.20 gal/hr

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity  
Emission Limit(s): 40 %  
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter  
Emission Limit(s): 0.01 gr/dscf  
Authority for Requirement: 567 IAC 23.4(13)

#### **Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

**Emission Point ID Number: 1-PDA-1**

Associated Equipment

Associated Emission Unit ID Number: 1-PSA2

---

**Emission Unit Description**

Emission Unit vented through this Emission Point: 1-PSA2

Emission Unit Description: Plastilock Air Dry Cabinets

Raw Material/Fuel: Plastilock Adhesive

Rated Capacity: 3.20 gal/hr

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

There are no emission limits at this time.

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"



**Emission Point ID Number: 1-PWA-1**

Associated Equipment

Associated Emission Unit ID Number: 1-PWA  
Emissions Control Equipment ID Number: 6-EFC  
Emissions Control Equipment Description: Cartridge Filter

---

**Emission Unit Description**

Emission Unit vented through this Emission Point: 1-PWA  
Emission Unit Description: 942-W2 Reclaim Weld Booth  
Raw Material/Fuel: Welding Electrode  
Rated Capacity: 10.06 lb/hr

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity  
Emission Limit(s): 20%  
Authority for Requirement: Iowa DNR Construction Permit 98-A-595  
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/scf  
Authority for Requirement: Iowa DNR Construction Permit 98-A-595  
567 IAC 23.3(2)"a"

**Source Emission Characteristics**

*The source shall be connected to the stack designated below.*

Height: 52.1 feet  
Size: 12 inch diameter  
Flow Rate: 2,000 scfm  
Temperature: Ambient  
Vertical, Unobstructed Discharge Required: Yes ☒ No ☐  
Authority for Requirement: Iowa DNR Construction Permit 98-A-595

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

**Emission Point ID Number: 1-PXP-1F**

Associated Equipment

Associated Emission Unit ID Number: 1-PXP

Emissions Control Equipment ID Number: 25-ESW

Emissions Control Equipment Description: Water Table Scrubber

---

**Emission Unit Description**

Emission Unit vented through this Emission Point: 1-PXP

Emission Unit Description: Plasma Arc 15578 (two torches)

Raw Material/Fuel: Steel

Rated Capacity: 75 in/min per torch

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

*See Fugitive Dust in Plant-Wide Conditions.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

## **Emission Point ID Number: 1-UBC-1S**

### Associated Equipment

Associated Emission Unit ID Number: 1-UBC  
Emissions Control Equipment ID Number: CE 1-ESW  
Emissions Control Equipment Description: Scrubber

---

### **Emission Unit Description**

Emission Unit vented through this Emission Point: 1-UBC  
Emission Unit Description: Ash Draw System (Standby Exhaust)  
Raw Material/Fuel: Ash  
Rated Capacity: 10 TPH

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity  
Emission Limit(s): 40%  
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/dscf  
Authority for Requirement: 567 IAC 23.3(2)"a"

#### **Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

**Emission Point ID Number: 1-UBC-2**

Associated Equipment

Associated Emission Unit ID Number: 1-UBC  
Emissions Control Equipment ID Number: 12-EFF  
Emissions Control Equipment Description: Baghouse

---

**Emission Unit Description**

Emission Unit vented through this Emission Point: 1-UBC  
Emission Unit Description: Ash Draw System  
Raw Material/Fuel: Ash  
Rated Capacity: 10 TPH

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity  
Emission Limit(s): 40%  
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/dscf  
Authority for Requirement: 567 IAC 23.3(2)"a"

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐**

*Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.*

*Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.*

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

**Emission Point ID Number: 1-WBB-1V**

Associated Equipment

Associated Emission Unit ID Number: 1-WBB

Emissions Control Equipment ID Number: 18-EFF

Emissions Control Equipment Description: Fabric Filter-Non-Powered Vent

---

**Emission Unit Description**

Emission Unit vented through this Emission Point: 1-WBB

Emission Unit Description: Ash Silo Vent

Raw Material/Fuel: Ash

Rated Capacity: 10 TPH

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

**Emission Point ID Number: 1-UBP-1F**

Associated Equipment

Associated Emission Unit ID Number: 1-UBP1

---

**Emission Unit Description**

Emission Unit vented through this Emission Point: 1-UBP1

Emission Unit Description: Coal Pile (fugitive)

Raw Material/Fuel: Coal

Rated Capacity: 24.9 TPH

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

*See Fugitive Dust in Plant-Wide Conditions.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"



## **Emission Point ID Number: 1-UUE-1**

### Associated Equipment

Associated Emission Unit ID Numbers: 1-UUE

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### **Emission Unit Description**

Emission Unit vented through this Emission Point: 1-UUE

Emission Unit Description: Powerhouse Emergency Generator

Raw Material/Fuel: Diesel Fuel

Rated Capacity: 3.36 gal./hr

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"(2)

#### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. No person shall allow, cause or permit the combustion of number 1 or number 2 fuel oil exceeding a sulfur content of 0.5 percent by weight.

**Reporting & Record keeping:**

The following records shall be maintained on-site for five (5) years and available for inspection upon request by representatives of the Department of Natural Resources:

1. The facility shall monitor the percent of sulfur by weight in the fuel oil as delivered. The documentation may be vendor supplied or facility generated.

Authority for Requirement: 567 IAC 23.3(3)"b"(1)

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

## Emission Point ID Number: C1-UUS-2

### Associated Equipment

Associated Emission Unit ID Number: See Table: Boilers

Emissions Control Equipment ID Numbers: See Table: Boilers

Emissions Control Equipment Description: See Table: Boilers

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### Emission Unit Descriptions

**Table: Boilers**

EU ID	EU Description	Primary Control Equipment	Secondary Control Equipment	Rate Capacity (MMBtu/hr)	Construction Permits <sup>(1)</sup>
1-UUS(1) 1-UUS(2)	#1 Boiler (Coal Combustion) #1 Boiler (Natural Gas Combustion)	CE 1-EMC Multiple Cyclone	CE 1-EEP Electrostatic Precipitator	94	71-A-89 77-A-363
2-UUS(1) 2-UUS(2)	#2 Boiler (Coal Combustion) #2 Boiler (Natural Gas Combustion)	CE 2-EMC Multiple Cyclone		94	71-A-90 77-A-363
3-UUS(1) 3-UUS(2)	#3 Boiler (Coal Combustion) #3 Boiler (Natural Gas Combustion)	CE 3-EMC Multiple Cyclone		94	71-A-89 77-A-363
4-UUS	#4 Boiler (Coal Combustion)	CE 4-EMC Multiple Cyclone		216	71-A-91 77-A-363

<sup>(1)</sup> Iowa DNR Construction Permits 71-A-89, 71-A-90, and 71-A-91 were issued to allow for the multiclones to be changed.

<sup>(2)</sup> Iowa DNR Construction Permit 77-A-363 was issued to allow for the addition of the electrostatic precipitator.

### Applicable Requirements

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from the emission units above shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.6 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"

Iowa DNR Construction Permits 71-A-89, 71-A-90, 71-A-91, and 77-A-363

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 6 lb/MMBtu (when combusting coal)

Authority for Requirement: 567 IAC 23.3(3)"a"(1)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500ppmv (when combusting natural gas)

Authority for Requirement: 567 IAC 23.3(3)"e"

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

#### **Reporting & Record keeping:**

The following records shall be maintained on-site for five (5) years and available for inspection upon request by representatives of the Department of Natural Resources:

1. The facility shall maintain the documentation of all fuels received listing the heat content and sulfur content (in %) of the coal to demonstrate compliance with the Sulfur Dioxide emission limit.

Authority for Requirement: 567 IAC 22.108(3)"b"

### **Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

The facility shall check the opacity directly after any powerhouse excursion and directly following any shutdown period during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. The facility shall use EPA Method 9 with a certified smoke reader for the monitoring method.

If an opacity > (40%) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

**Stack Testing:** Tests shall be conducted at the main stack for the combined boiler output for the following:

Pollutant - Particulate Matter  
Stack Test to be Completed by (date) – July 9, 2003  
Test Method - Iowa Compliance Sampling Manual  
Authority for Requirement - 567 IAC 22.108(3)

*The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)*

**Agency Approved Operation & Maintenance Plan Required?** Yes ☒ No ☐  
Relevant requirements of O & M plan for this equipment: Particulate Matter

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

## **Multiclone and Electrostatic Precipitator Agency Operation & Maintenance Plan**

### **Monitoring Guidelines**

John Deere Dubuque Works makes a commitment to take timely corrective action on powerhouse activities, which due to mechanical or electrical failure, could result in a reduction in efficiency for the boiler multiclones or the electrostatic precipitator (called an excursion). A corrective action for the multiclones or electrostatic precipitator will include an investigation of the reason for the excursion, evaluation of the situation, and necessary follow up to return the boiler multiclones or electrostatic precipitator to normal operation. If applicable, under 567 IAC 24.1(3), a formal letter will be written to the IDNR Regional office.

An excursion does not necessarily indicate a violation of an applicable requirement. If the corrective action measures fail to return the indicators to the appropriate range, the facility will report the exceedance to the department and conduct source testing within 90 days of the exceedance to demonstrate compliance with applicable requirements. If the test demonstrates compliance with emission limits then new indicator ranges must be set for monitoring and the new ranges must be incorporated in the operating permit. If the test demonstrates noncompliance with emission limits, then the facility, within 60 days, proposes a schedule to implement corrective action to bring the source into compliance and demonstrate compliance.

## **Monitoring Methods and Corrective Actions**

### **General**

- Periodic monitoring is not required during periods of time greater than one day in which the source does not operate.
- Powerhouse operations include two daily operating logs: "Fireman's Operating Log" and a "Boiler Status Log".
- These logs are used to diagnose abnormal powerhouse conditions and seek corrective action.

### **Daily**

- Follow the Fireman's Operating Log and the Boiler Status Log.
- Check and record ash removal vacuum pressure to ensure proper operation.
- Check and record electrostatic precipitator voltage readings to ensure proper operation.

### **Annually-Multiclones**

- Check hopper unloading components.
- Check tube sheets for leaks.
- Check inlet and outlet ductwork.
- Check barrel and collecting tubes.
- Check cyclone inlet vanes.
- Check spirocones.

### **Annually-Electrostatic Precipitator**

#### **Internal Inspection**

- Clean dust from collecting plates.
- Check for dust buildup and corona tufts on wires.
- Check for interior corrosion.
- Check plate alignment.
- Check discharge wire spacers and hanger weights.

#### **Hopper**

- Check dust buildup in corners.
- Check high tension weights and isolation insulators.
- Check for hopper cracks.
- Check hopper valve for debris.

#### **Penthouse**

- Check for corrosion and/or leakage of gas into housing.
- Check for adequate air sealing pressure.
- Clean high tension insulators.
- Check that all electrical connections are secure.

**Transformer Rectifier**

- Check liquid level, and fill if necessary.
- Clean lines, bushings, and terminals.

**Rappers**

- Clean, lubricate, and, if necessary, replace distributor switch contacts.
- Check rapper assembly for free movement and make necessary adjustments

**Control**

- Clean and dress control cabinet relay contacts.
- Check and calibrate all instruments and controls.
- Check for excessive moisture.

**Record Keeping and Reporting**

Records shall be kept on-site for at least five (5) years and shall be available for inspection by the Department. Records shall be maintained in legible and orderly manner and shall include the following:

- The facility will maintain a written or electronic record of all inspections and any action resulting from the inspections.
- The facility will keep records of all abnormal conditions.

**Quality Control**

All instruments and control equipment will be calibrated, maintained, and operated according to the manufacturer's specifications.

## Emission Point ID Numbers: See Table: Boiler Bypass Stacks

Associated Emission Unit ID Numbers: See Table: Boiler Bypass Stacks

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### Emission Unit Descriptions

**Table: Boiler Bypass Stacks**

Emission Point Number	Emission Unit Number	Emission Unit Description and Fuels	Rated Capacity (MMBtu/hr)
1-UUS-1B	1-UUS(1) and (2)	#1 Boiler (Coal Fired (1) and Natural Gas Fired (2))	94 MMBtu/hr
2-UUS-1B	2-UUS(1) and (2)	#2 Boiler (Coal Fired (1) and Natural Gas Fired (2))	94 MMBtu/hr
3-UUS-1B	3-UUS(1) and (2)	#3 Boiler (Coal Fired (1) and Natural Gas Fired (2))	94 MMBtu/hr
4-UUS-1B	4-UUS	#4 Boiler (Coal Fired)	216 MMBtu/hr

### Applicable Requirements

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from these emission units shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.6 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 6 lb/MMBtu (When Coal Fired)

Authority for Requirement: 567 IAC 23.3(3)"a"(1)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500 ppmv (When Natural Gas Fired)

Authority for Requirement: 567 IAC 23.3(3)"e"



**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

## **Emission Point ID Number: 1-UUW-1**

### Associated Equipment

Associated Emission Unit ID Number: 1-UUW

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### **Emission Unit Description**

Emission Unit vented through this Emission Point: 1-UUW

Emission Unit Description: # 6 Fire Well

Raw Material/Fuel: Diesel Fuel

Rated Capacity: 14.9 gal/hr

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"(2)

#### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. No person shall allow, cause or permit the combustion of number 1 or number 2 fuel oil exceeding a sulfur content of 0.5 percent by weight.

Reporting & Record keeping:

The following records shall be maintained on-site for five (5) years and available for inspection upon request by representatives of the Department of Natural Resources:

1. The facility shall monitor the percent of sulfur by weight in the fuel oil as delivered. The documentation may be vendor supplied or facility generated.

Authority for Requirement: 567 IAC 23.3(3)"b"(1)

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

**Emission Point ID Number: 1-WBV-1F**

Associated Equipment

Associated Emission Unit ID Number: 1-WBV

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**Emission Unit Description**

Emission Unit vented through this Emission Point: 1-WBV

Emission Unit Description: Landfill Haul Road (fugitive)

Raw Material/Fuel: Unpaved Road

Rated Capacity: 0.53 VMT/hr

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

*See Fugitive Emissions in Plant-Wide Conditions.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

**Emission Point ID Number: 1-WNA-1**

Associated Equipment

Associated Emission Unit ID Number: 1-WNA

Emissions Control Equipment ID Number: 11-EFM

Emissions Control Equipment Description: Filter Mat-Wood Fiber

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**Emission Unit Description**

Emission Unit vented through this Emission Point: 1-WNA

Emission Unit Description: Aerosol Can Puncture Cabinet

Raw Material/Fuel: Aerosol Cans

Rated Capacity: 3.3 cans/hr

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 81-A-39  
567 IAC 23.4(13)

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

## **Emission Point ID Numbers: 17-PSP-1, 17-PSP-2**

### Associated Equipment

Associated Emission Unit ID Number : 17-PSP

Emissions Control Equipment ID Number: 21-ESW

Emissions Control Equipment Description: Water Wall Scrubber

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### **Emission Unit Description**

Emission Unit vented through these Emission Points: 17-PSP

Emission Unit Description: Crawler Base Coat Paint Booth

Raw Material/Fuel: Paint

Rated Capacity: 10.26 gal/hr

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from these emission points shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: 567 IAC 23.3(2)"d"

Iowa DNR Construction Permit 97-A-990

Iowa DNR Construction Permit 97-A-991

<sup>(1)</sup> If visible emissions are observed other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf, 1.96 lb./hr and 6.05 TPY<sup>(2)</sup>

Authority for Requirement: Iowa DNR Construction Permit 97-A-990

Iowa DNR Construction Permit 97-A-991

567 IAC 23.4(13)

Pollutant: PM-10

Emission Limit(s): 1.15 lb/hr and 3.55 TPY<sup>(2)</sup>

Authority for Requirement: Iowa DNR Construction Permit 97-A-990

Iowa DNR Construction Permit 97-A-991

<sup>(2)</sup> Limit for *each* stack

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 72.5 TPY<sup>(3)</sup>

Authority for Requirement: Iowa DNR Construction Permit 97-A-990

Iowa DNR Construction Permit 97-A-991

<sup>(3)</sup> Limit for booths 17-PSP and 18-PSP combined.

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Hours of operation:

1. This source shall operate a maximum of 6,183 hours per 12-month rolling period, rolled monthly.

Reporting & Record keeping:

Records shall be kept on-site for at least five (5) years and shall be available for inspection by the Department. Records shall be maintained in legible and orderly manner and shall indicate the following:

1. The VOC content of all paint and base coat used in this booth, in pounds per gallon.
2. The amount of paint and base coat used in this booth, in gallons per day. Calculate and record monthly and 12-month total rolled monthly.
3. The number of hours this source is operated. Calculate and record monthly and 12-month totals rolled monthly.

Authority for Requirement: Iowa DNR Construction Permit 97-A-990

Iowa DNR Construction Permit 97-A-991

### **Source Emission Characteristics**

*This source shall be connected to the stacks designated below.*

Stacks 17-PSP-1 and 17-PSP-2

Stack Height: 56.5 feet

Stack Diameter: 48 inches

Stack Exhaust Flow Rate: 26,775 acfm

Stack Temperature: ambient

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 97-A-990 (Stack 17-PSP-1)

Iowa DNR Construction Permit 97-A-991 (Stack 17-PSP-2)

### **Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

#### **Stack Testing:**

Pollutant – PM<sub>10</sub>

Stack test to be conducted if there is an average monthly paint flow rate for three consecutive months greater than 20% (relative to the maximum paint application rate) over the baseline flow rate set by the most recent emission testing. The test must be conducted within 60 days following the end of the third consecutive month above this threshold.

Test Method – 40 CFR 51, Appendix M, 201A with 202

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐**

*Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.*

*Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.*

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"



## **Emission Point ID Numbers: 18-PSP-1, 18-PSP-2**

### Associated Equipment

Associated Emission Unit ID Number: 18-PSP

Emissions Control Equipment ID Number: 22-ESW

Emissions Control Equipment Description: Water Wall Scrubber

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### **Emission Unit Description**

Emission Unit vented through these Emission Points: 18-PSP

Emission Unit Description: Crawler Top Coat Paint Booth

Raw Material/Fuel: Paint

Rated Capacity: 10.26 gal/hr

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from these emission points shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: 567 IAC 23.3(2)"d"

Iowa DNR Construction Permit 97-A-992

Iowa DNR Construction Permit 97-A-993

<sup>(1)</sup> If visible emissions are observed other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf, 1.96 lb/hr and 6.05 TPY<sup>(2)</sup>

Authority for Requirement: Iowa DNR Construction Permit 97-A-992

Iowa DNR Construction Permit 97-A-993

567 IAC 23.4(13)

Pollutant: PM-10

Emission Limit(s): 1.15 lb/hr and 3.55 TPY<sup>(2)</sup>

Authority for Requirement: Iowa DNR Construction Permit 97-A-992

Iowa DNR Construction Permit 97-A-993

<sup>(2)</sup> Limit for *each* stack

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 72.5 TPY<sup>(3)</sup>

Authority for Requirement: Iowa DNR Construction Permit 97-A-992

Iowa DNR Construction Permit 97-A-993

<sup>(3)</sup> Limit for booths 17-PSP and 18-PSP combined.

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Hours of operation:

1. This source shall operate a maximum of 6,183 hours per 12-month rolling period, rolled monthly.

Reporting & Record keeping:

Records shall be kept on-site for at least five (5) years and shall be available for inspection by the Department. Records shall be maintained in legible and orderly manner and shall indicate the following:

1. The VOC content of all paint and base coat used in this booth, in pounds per gallon.
2. The amount of paint and base coat used in this booth, in gallons per day. Calculate and record monthly and 12-month total rolled monthly.
3. The number of hours this source is operated. Calculate and record monthly and 12-month totals rolled monthly.

Authority for Requirement: Iowa DNR Construction Permit 97-A-992

Iowa DNR Construction Permit 97-A-993

### **Source Emission Characteristics**

*This source shall be connected to the stacks designated below.*

Stacks 18-PSP-1 and 18-PSP-2

Height: 56.5 feet

Size: 48 inches diameter

Flow Rate: 26,775 acfm

Temperature: ambient

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 97-A-992 (Stack 18-PSP-1)

Iowa DNR Construction Permit 97-A-993 (Stack 18-PSP-2)

### **Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

#### **Stack Testing:**

Pollutant – PM<sub>10</sub>

Stack test to be conducted if there is an average monthly paint flow rate for three consecutive months greater than 20% (relative to the maximum paint application rate) over the baseline flow rate set by the most recent emission testing. The test must be conducted within 60 days following the end of the third consecutive month above this threshold.

Test Method – 40 CFR 51, Appendix M, 201A with 202

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐**

*Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.*

*Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.*

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

## **Emission Point ID Number: 10-PDF-1**

### Associated Equipment

Associated Emission Unit ID Number: 10-PDF

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### **Emission Unit Description**

Emission Unit vented through this Emission Point: 10-PDF  
Emission Unit Description: 186-W3 Crawler Paint Curing Oven  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 4 MMBtu/hr

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 20 %

Authority for Requirement: Iowa DNR Construction Permit 97-A-994  
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 97-A-994  
567 IAC 23.3(2)"a"

Pollutant: PM-10

Emission Limit(s): 0.21 TPY

Authority for Requirement: Iowa DNR Construction Permit 97-A-994

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500 ppmv

Authority for Requirement: 567 IAC 23.3(3)"e"

#### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. This source is limited to the firing of natural gas and propane only.

Reporting & Record keeping:

Records shall be kept on-site for at least five (5) years and shall be available for inspection by the Department. Records shall be maintained in legible and orderly manner and shall indicate the following:

1. The type of fuel fired in this oven

Authority for Requirement: Iowa DNR Construction Permit 97-A-994

**Source Emission Characteristics**

*This source shall be connected to the stack designated below.*

Height: 41.5 feet

Size: 30 inches diameter

Flow Rate: 9,745 acfm

Temperature: 200 °F

Vertical, Unobstructed Discharge Required: Yes ☐ No ☒

Authority for Requirement: Iowa DNR Construction Permit 97-A-994

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

## **Emission Point ID Number: 10-PDF-2**

### Associated Equipment

Associated Emission Unit ID Numbers: 10-PDF

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### **Emission Unit Description**

Emission Unit vented through this Emission Point: 10-PDF  
Emission Unit Description: 186-W3 Crawler Paint Curing Oven  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 4 MMBtu/hr

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 20 %

Authority for Requirement: Iowa DNR Construction Permit 97-A-995  
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 97-A-995  
567 IAC 23.3(2)"a"

Pollutant: PM-10

Emission Limit(s): 0.21 TPY

Authority for Requirement: Iowa DNR Construction Permit 97-A-995

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500 ppmv

Authority for Requirement: 567 IAC 23.3(3)"e"

#### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. This source is limited to the firing of natural gas and propane only.

Reporting & Record keeping:

Records shall be kept on-site for at least five (5) years and shall be available for inspection by the Department. Records shall be maintained in legible and orderly manner and shall indicate the following:

1. The type of fuel fired in this oven

Authority for Requirement: Iowa DNR Construction Permit 97-A-995

**Source Emission Characteristics**

*This source shall be connected to the stack designated below.*

Height: 41.5 feet

Size: 42 inches diameter

Flow Rate: 21,700 acfm

Temperature: 200 °F

Vertical, Unobstructed Discharge Required: Yes ☐ No ☒

Authority for Requirement: Iowa DNR Construction Permit 97-A-995

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

## **Emission Point ID Number: See Table: Crawler Assembly Tests**

### Associated Equipment

Associated Emission Unit ID Numbers: See Table: Crawler Assembly Tests

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## **Emission Unit Descriptions**

### **Table: Crawler Assembly Tests**

<b>Emission Point Number</b>	<b>Emission Unit Number</b>	<b>Emission Unit Description</b>	<b>Fuel</b>	<b>Rated Capacity (gal./hr)</b>
2-PQU-1	2-PQU	143-W4 Crawler QA Test Module	Diesel	6.8 gal/hr
6-PQU-1	6-PQU	187-W3 H Crawler Assembly Function Test; C-	Diesel	9.07 gal./hr
7-PQU-1	7-PQU	187-W3 H Crawler Assembly Function Test; W-	Diesel	9.07 gal./hr
8-PQU-1	8-PQU	187-W3 H Crawler Assembly Function Test; E-	Diesel	9.07 gal./hr
10-PQU-1	10-PQU	143-W4 C Series Crawler Assembly	Diesel	13.6 gal./hr

## **Applicable Requirements**

### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from these emission points shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"(2)

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. No person shall allow, cause or permit the combustion of number 1 or number 2 fuel oil exceeding a sulfur content of 0.5 percent by weight.



**Reporting & Record keeping:**

The following records shall be maintained on-site for five (5) years and available for inspection upon request by representatives of the Department of Natural Resources:

1. The facility shall monitor the percent of sulfur by weight in the fuel oil as delivered. The documentation may be vendor supplied or facility generated.

Authority for Requirement: 567 IAC 23.3(3)"b"(1)

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

## **Emission Point ID Number: See Table: Skid Steer Tests**

### Associated Equipment

Associated Emission Unit ID Numbers: See Table: Skid Steer Tests

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## **Emission Unit Descriptions**

### **Table: Skid Steer Tests**

<b>Emission Point Number</b>	<b>Emission Unit Number</b>	<b>Emission Unit Description</b>	<b>Fuel</b>	<b>Rated Capacity (gal./hr)</b>
12-PQU-1	12-PQU	158-W5 Skid Steer Fuel Station	Diesel	1.33 gal/hr
13-PQU-1	13-PQU	158-W5 Skid Steer Assembly Function Test	Diesel	1.33 gal/hr
14-PQU-1	14-PQU	158-W5 Skid Steer Tracking Station	Diesel	1.33 gal/hr

## **Applicable Requirements**

### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from these emission points shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"(2)

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. No person shall allow, cause or permit the combustion of number 1 or number 2 fuel oil exceeding a sulfur content of 0.5 percent by weight.

**Reporting & Record keeping:**

The following records shall be maintained on-site for five (5) years and available for inspection upon request by representatives of the Department of Natural Resources:

1. The facility shall monitor the percent of sulfur by weight in the fuel oil as delivered. The documentation may be vendor supplied or facility generated.

Authority for Requirement: 567 IAC 23.3(3)"b"(1)

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

**Emission Point ID Number: See Table: Shot Blast**

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Shot Blast

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**Emission Unit Descriptions**

**Table: Shot Blast**

Emission Point Number	Emission Unit Number	Control Equipment Number	Control Equipment Description	Emission Unit Description	Raw Material	Rated Capacity (tons/hr)
1-PCA-1	1-PCA	1-EFF	Baghouse	Brake Bonding Shot Blast M12212	Shot	16
12-PCA-1F	12-PCA	11-EFF	Baghouse	Heat Treat Shot Blast M15158	Shot	54
18-PCA-1F	18-PCA	25-EFC	Cartridge Filter	Skid Steer Shot Blast M16766	Shot	54

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from these emission points shall not exceed the levels specified below.*

*For emission point 1-PCA-1 only.*

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

*For emission points 12-PCA-1F and 18-PCA-1F only.*

*See Fugitive Dust in Plant-Wide Conditions.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

## **Emission Point ID Number: 18-UVM-1F**

### Associated Equipment

Associated Emission Unit ID Number: 18-UVM

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### **Emission Unit Description**

Emission Unit vented through this Emission Point: 18-UVM  
Emission Unit Description: Air Make-Up X-21, All Weather Test Site  
Raw Material/Fuel: Propane  
Rated Capacity: 7.0 MMBtu/hr

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 00-A-817

567 IAC 23.3(2)"d"

<sup>(1)</sup> Per DNR Air Quality Policy 3-b-08, Opacity Limits, an exceedence of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedence. The permit holder shall also file an "indicator opacity exceedence report" with the DNR field office and keep records as required in the policy. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr /dscf

Authority for Requirement: Iowa DNR Construction Permit 00-A-817

567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500 ppmv

Authority for Requirement: 567 IAC 23.3(3)"e"

**Emission Point Characteristics**

*This emission point shall conform to the specifications listed below.*

Stack Height (ft, from the ground)): NA

Stack Opening (inches, diameter): NA

Exhaust Flow Rate (scfm): NA

Exhaust Temperature (°F): NA

Discharge Style: Fugitive inside the building

Authority for Requirement: Iowa DNR Construction Permit 00-A-817

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

## **Emission Point ID Numbers: 19-PSP-1, 19-PSP-2**

### Associated Equipment

Associated Emission Unit ID Number: 19-PSP

Emissions Control Equipment ID Number: 23-ESW

Emissions Control Equipment Description: Water Wall Scrubber

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### **Emission Unit Description**

Emission Unit vented through these Emission Points: 19-PSP

Emission Unit Description: 163-W1 Backhoe Prime Coat Paint Booth

Raw Material/Fuel: Paint

Rated Capacity: 10.03 gal/hr

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from these emission points shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: 567 IAC 23.3(2)"d"

Iowa DNR Construction Permit 98-A-081-S1

Iowa DNR Construction Permit 98-A-082-S1

<sup>(1)</sup> Per DNR Air Quality Policy 3-b-08, Opacity Limits, an exceedence of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedence. The permit holder shall also file an "indicator opacity exceedence report" with the DNR field office and keep records as required in the policy. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf, 1.38 lb./hr and 6.04 TPY<sup>(2)</sup>

Authority for Requirement: Iowa DNR Construction Permit 98-A-081-S1

Iowa DNR Construction Permit 98-A-082-S1

567 IAC 23.4(13)

Pollutant: PM-10

Emission Limit(s): 1.122 lb/hr and 3.55 TPY<sup>(2)</sup>

Authority for Requirement: Iowa DNR Construction Permit 98-A-081-S1

Iowa DNR Construction Permit 98-A-082-S1

<sup>(2)</sup> Limit for *each* stack.



Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 119 TPY<sup>(3)</sup>

Authority for Requirement: Iowa DNR Construction Permit 98-A-081-S1

Iowa DNR Construction Permit 98-A-082-S1

<sup>(3)</sup> Limit for booths 19 and 20 combined.

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Hours of operation:

1. This booth shall be operated no more than 6,323 hours per 12-month rolling period.

Process throughput:

1. The amount of paint used in booths 19-PSP and 20-PSP shall not exceed 63,444 gallons per 12-month rolling period.
2. No more than 4,000 gallons per 12-month rolling period shall have a VOC content greater than 3.6 pounds per gallon.
3. The VOC content of any paint shall not exceed 6.0 pounds per gallon.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. These records shall demonstrate compliance with all applicable operating limits. Records shall be legible and maintained in an orderly manner.

1. Record the VOC content of any paint used in this booth, in pounds per gallon.
2. Calculate the amount of paint used in this booth and booth 20-PSP combined, in gallons per day. Calculate and record monthly and 12-month rolling totals.
3. Record the number of hours this booth is operated. Calculate and record monthly hours and 12-month rolling totals.

Authority for Requirement: Iowa DNR Construction Permit 98-A-081-S1

Iowa DNR Construction Permit 98-A-082-S1

**Source Emission Characteristics**

*These emission points shall conform to the specifications listed below.*

Stacks 19-PSP-1 and 19-PSP-2

Stack Height (ft., from the ground): 56 feet

Stack Opening (inches, dia.): 48 inches

Exhaust Flow Rate (scfm): 26,775

Exhaust Temperature (°F): Ambient

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 98-A-081-S1 (Stack 19-PSP-1)

Iowa DNR Construction Permit 98-A-082-S1 (Stack 19-PSP-2)

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Stack Testing:**

Pollutant – PM<sub>10</sub>

Stack test to be conducted if there is an average monthly paint flow rate for three consecutive months greater than 20% (relative to the maximum paint application rate) over the baseline flow rate set by the most recent emission testing. The test must be conducted within 60 days following the end of the third consecutive month above this threshold.

Test Method – 40 CFR 51, Appendix M, 201A with 202

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐**

*Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.*

*Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.*

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

## **Emission Point ID Numbers: 20-PSP-1, 20-PSP-2**

### **Associated Equipment**

Associated Emission Unit ID Number: 20-PSP

Emissions Control Equipment ID Number: 24-ESW

Emissions Control Equipment Description: Water Wall Scrubber

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### **Emission Unit Description**

Emission Unit vented through these Emission Points: 20-PSP

Emission Unit Description: 163-W1 Backhoe Top Coat Paint Booth

Raw Material/Fuel: Paint

Rated Capacity: 10.03 gal/hr

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from these emission points shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: 567 IAC 23.3(2)"d"

Iowa DNR Construction Permit 98-A-083

Iowa DNR Construction Permit 98-A-084

<sup>(1)</sup> If visible emissions are observed other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf, 1.38 lb./hr and 6.04 TPY<sup>(2)</sup>

Authority for Requirement: Iowa DNR Construction Permit 98-A-083

Iowa DNR Construction Permit 98-A-084

567 IAC 23.4(13)

Pollutant: PM-10

Emission Limit(s): 1.122 lb/hr and 3.55 TPY<sup>(2)</sup>

Authority for Requirement: Iowa DNR Construction Permit 98-A-083

Iowa DNR Construction Permit 98-A-084

(2) Limit for *each* stack.

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 119 TPY<sup>(3)</sup>

Authority for Requirement: Iowa DNR Construction Permit 98-A-083

Iowa DNR Construction Permit 98-A-084

<sup>(3)</sup> Limit for booths 19 and 20 combined.

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Hours of operation:

1. This source shall operate a maximum of 6,323 hours per 12-month rolling period, rolled monthly.

Process throughput:

1. The maximum allowable paint consumption is 63,444 gallons per 12-month rolling period, rolled monthly.
2. No more than 4,000 gallons per 12-month rolling period, rolled monthly, shall have a VOC content greater than 3.6 pounds per gallon.
3. The VOC content of any paint shall not exceed 6.0 pounds per gallon.

Reporting & Record keeping:

Records shall be kept on-site for at least five (5) years and shall be available for inspection by the Department. Records shall be maintained in legible and orderly manner and shall indicate the following:

1. The VOC content of all paints used in this booth, in pounds per gallon.
2. Calculate the amount of paint used in this booth, in gallons per day. Calculate and record monthly and 12-month total rolled monthly.
3. Record the number of hours this source is operated. Calculate and record monthly hours and 12-month totals rolled monthly.

Authority for Requirement: Iowa DNR Construction Permit 98-A-083

Iowa DNR Construction Permit 98-A-084

### **Source Emission Characteristics**

*These sources shall be connected to the stacks designated below.*

Stacks 20-PSP-1 and 20-PSP-2

Height: 56 feet

Diameter: 48 inches

Flow Rate: 26,775 acfm

Temperature: 72° F

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 98-A-083 (Stack 20-PSP-1)

Iowa DNR Construction Permit 98-A-084 (Stack 20-PSP-2)

### **Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

#### **Stack Testing:**

Pollutant – PM<sub>10</sub>

Stack test to be conducted if there is an average monthly paint flow rate for three consecutive months greater than 20% (relative to the maximum paint application rate) over the baseline flow rate set by the most recent emission testing. The test must be conducted within 60 days following the end of the third consecutive month above this threshold.

Test Method – 40 CFR 51, Appendix M, 201A with 202

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐**

*Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.*

*Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.*

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)"b"

## **Emission Point ID Number: 11-PDF-1**

### Associated Equipment

Associated Emission Unit ID Number: 11-PDF

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### **Emission Unit Description**

Emission Unit vented through this Emission Point: 11-PDF  
Emission Unit Description: 163-W1 Backhoe Paint Curing Oven  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 4 MMBtu/hr

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 98-A-079-S1  
567 IAC 23.3(2)"d"

<sup>(1)</sup> Per DNR Air Quality Policy 3-b-08, Opacity Limits, an exceedence of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedence. The permit holder shall also file an "indicator opacity exceedence report" with the DNR field office and keep records as required in the policy. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 98-A-079-S1  
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500 ppmv

Authority for Requirement: Iowa DNR Construction Permit 98-A-079-S1  
567 IAC 23.3(3)"e"

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. This emission unit is limited to the firing of natural gas or propane only.

Reporting & Record keeping:

Records shall be kept on-site for at least five (5) years and shall be available for inspection by the Department. Records shall be maintained in legible and orderly manner and shall indicate the following:

1. The type of fuel fired in this oven

Authority for Requirement: Iowa DNR Construction Permit 98-A-079-S1

**Additional Requirements**

*This emission point shall conform to the conditions listed below.*

Stack Height (feet from the ground): 41

Stack Opening (inches, diameter): 30

Stack Exhaust Flow Rate (acfm): 9,745

Exhaust Temperature (°F): 170

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 98-A-079-S1

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

## **Emission Point ID Number: 11-PDF-2**

### Associated Equipment

Associated Emission Unit ID Number: 11-PDF

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### **Emission Unit Description**

Emission Unit vented through this Emission Point: 11-PDF  
Emission Unit Description: 163-W1 Backhoe Paint Curing Oven  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 4 MMBtu/hr

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40%<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 98-A-080-S1  
567 IAC 23.3(2)"d"

<sup>(1)</sup> Per DNR Air Quality Policy 3-b-08, Opacity Limits, an exceedence of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedence. The permit holder shall also file an "indicator opacity exceedence report" with the DNR field office and keep records as required in the policy. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: Iowa DNR Construction Permit 98-A-080-S1  
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 500 ppmv

Authority for Requirement: Iowa DNR Construction Permit 98-A-080-S1  
567 IAC 23.3(3)"e"



### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. This emission unit is limited to the firing of natural gas or propane only.

Reporting & Record keeping:

Records shall be kept on-site for at least five (5) years and shall be available for inspection by the Department. Records shall be maintained in legible and orderly manner and shall indicate the following:

1. The type of fuel fired in this oven

Authority for Requirement: Iowa DNR Construction Permit 98-A-080-S1

### **Additional Requirements**

*This emission point shall conform to the conditions listed below.*

Stack Height (feet from the ground): 41

Stack Opening (inches, diameter): 42

Stack Exhaust Flow Rate (scfm): 21,700

Exhaust Temperature (°F): Ambient

Vertical, Unobstructed Discharge Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 98-A-080-S1

### **Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

## **Emission Point ID Number: See Table: Backhoe Assembly**

### Associated Equipment

Associated Emission Unit ID Numbers: See Table: Backhoe Assembly

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## **Emission Unit Descriptions**

### **Table: Backhoe Assembly**

<b>Emission Point Number</b>	<b>Emission Unit Number</b>	<b>Emission Unit Description</b>	<b>Fuel</b>	<b>Rated Capacity (gal./hr)</b>
3-PQU-1	3-PQU	163-W1 Backhoe Assembly PT Check	Diesel	4.0 gal/hr
3-PQU-2	3-PQU	163-W1 Backhoe Assembly PT Check	Diesel	4.0 gal/hr
4-PQU-1	4-PQU	163-W1 Backhoe Assembly Function Test	Diesel	2.0 gal/hr
5-PQU-1	5-PQU	163-W1 Backhoe QA Test Module	Diesel	2.0 gal/hr
9-PQU-1	9-PQU	163-W1 Backhoe Assembly Tire & Bucket Mount	Diesel	2.0 gal/hr

## **Applicable Requirements**

### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from these emission points shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"(2)

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. No person shall allow, cause or permit the combustion of number 1 or number 2 fuel oil exceeding a sulfur content of 0.5 percent by weight.

**Reporting & Record keeping:**

The following records shall be maintained on-site for five (5) years and available for inspection upon request by representatives of the Department of Natural Resources:

1. The facility shall monitor the percent of sulfur by weight in the fuel oil as delivered. The documentation may be vendor supplied or facility generated.

Authority for Requirement: 567 IAC 23.3(3)"b"(1)

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

## **Emission Point ID Number: 6-PQE-1**

### Associated Equipment

Associated Emission Unit ID Number: 6-PQE

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### **Emission Unit Description**

Emission Unit vented through this Emission Point: 6-PQE

Emission Unit Description: Experimental Test Engine Dynamometer Cell

Raw Material/Fuel: #2 Diesel Fuel

Rated Capacity: 36.4 gallons/hr

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 01-A-913

567 IAC 23.3(2)"d"

<sup>(1)</sup> Per DNR Air Quality Policy 3-b-08, Opacity Limits, an exceedance of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. The permit holder shall also file an "indicator opacity exceedance report" with the DNR field office and keep records as required in the policy. If the exceedance continues after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM-10

Emission Limit(s): 1.66 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 01-A-913

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"(2)

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)

Emission Limit(s): 24.2 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 01-A-913

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. The quantity of fuel shall not exceed 30,940 gallons per twelve-month rolling total.
2. The fuel shall be limited to #2 only.
3. The sulfur content of the fuel shall not exceed 0.05% by weight.
4. Only one engine may be tested at any one time.

Reporting & Record keeping:

The following records shall be maintained on-site for five (5) years and available for inspection upon request by representatives of the Department of Natural Resources:

1. Maintain records as to the quantity of fuel used per twelve-month rolling total.
2. Maintain records as to the fuel type and sulfur content of the fuel.

Authority for Requirement: Iowa DNR Construction Permit 01-A-913

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height (feet): 29

Stack Diameter (inches): 10

Stack Exhaust Flow Rate (scfm): 1600

Stack Temperature (°F): 1000

Vertical w/o Rain Cap or w/ Unobstructing Rain Cap Required: Yes ☒ No ☐

Authority for Requirement: Iowa DNR Construction Permit 01-A-913

It shall be the owner's responsibility to ensure that construction conforms with the emission point characteristics stated above. If it is determined that any of the emission point characteristics are different than stated above, the owner must notify the Department and obtain a construction permit amendment, if required.

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

## **Emission Point ID Number: 2-UUE-1**

### Associated Equipment

Associated Emission Unit ID Number: 2-UUE

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### **Emission Unit Description**

Emission Unit vented through this Emission Point: 2-UUE  
Emission Unit Description: Telephone Service Backup Generator  
Raw Material/Fuel: Diesel Fuel  
Rated Capacity: 3.36 gal/hr

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity  
Emission Limit(s): 40 %  
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/dscf  
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limit(s): 2.5 lb/MMBtu  
Authority for Requirement: 567 IAC 23.3(3)"b"(2)

#### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. No person shall allow, cause or permit the combustion of number 1 or number 2 fuel oil exceeding a sulfur content of 0.5 percent by weight.

Reporting & Record keeping:

The following records shall be maintained on-site for five (5) years and available for inspection upon request by representatives of the Department of Natural Resources:

1. The facility shall monitor the percent of sulfur by weight in the fuel oil as delivered. The documentation may be vendor supplied or facility generated.

Authority for Requirement: 567 IAC 23.3(3)"b"(1)

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

## **Emission Point ID Number: 2-UUW-1**

### Associated Equipment

Associated Emission Unit ID Number: 2-UUW

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### **Emission Unit Description**

Emission Unit vented through this Emission Point: 2-UUW

Emission Unit Description: #8 Fire Well

Raw Material/Fuel: Diesel Fuel

Rated Capacity: 18.8 gal/hr

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"(2)

#### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. No person shall allow, cause or permit the combustion of number 1 or number 2 fuel oil exceeding a sulfur content of 0.5 percent by weight.



**Reporting & Record keeping:**

The following records shall be maintained on-site for five (5) years and available for inspection upon request by representatives of the Department of Natural Resources:

1. The facility shall monitor the percent of sulfur by weight in the fuel oil as delivered. The documentation may be vendor supplied or facility generated.

Authority for Requirement: 567 IAC 23.3(3)"b"(1)

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

**Emission Point ID Number: 2-WBB-1**

Associated Equipment

Associated Emission Unit ID Number: 2-WBB  
Emissions Control Equipment ID Number: 16-EFF  
Emissions Control Equipment Description: Baghouse

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**Emission Unit Description**

Emission Unit vented through this Emission Point: 2-WBB  
Emission Unit Description: C-26 Bulk Lime Delivery  
Raw Material/Fuel: Lime  
Rated Capacity: 0.087 TPH

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity  
Emission Limit(s): 40 %  
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter  
Emission Limit(s): 0.1 gr/dscf, 0.68 lb./hr, and 3.0 TPY  
Authority for Requirement: Iowa DNR Construction Permit 91-A-175  
567 IAC 23.3(2)"a"

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

**Emission Point ID Number: C6-PXF-1F**

Associated Equipment

Associated Emission Unit ID Number: 3-PXF

Emissions Control Equipment ID Number: 14-ESW, 5-EFC

Emissions Control Equipment Description: Water Table, Cartridge Filter

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**Emission Unit Description**

Emission Unit vented through this Emission Point: 3-PXF

Emission Unit Description: G2 Fixture Flame Cut-13567

Raw Material/Fuel: Natural Gas

Rated Capacity: 0.075 Mcf/hr

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

*See Fugitive Emissions in Plant-Wide Conditions.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

**Emission Point ID Number: 3-PXP-1F**

Associated Equipment

Associated Emission Unit ID Number: 3-PXP

Emissions Control Equipment ID Number: 26-ESW

Emissions Control Equipment Description: Water Table

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**Emission Unit Description**

Emission Unit vented through this Emission Point: 3-PXP

Emission Unit Description: Plasma Arc-15683 (two torches)

Raw Material/Fuel: Steel

Rated Capacity: 65 in/min per torch

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

*See Fugitive Emissions in Plant-Wide Conditions.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

## **Emission Point ID Numbers: See Table: Standby Generators**

### Associated Equipment

Associated Emission Unit ID Numbers: See Table: Standby Generators

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## **Emission Unit Descriptions**

### **Table: Standby Generators**

<b>Emission Point Number</b>	<b>Emission Unit Number</b>	<b>Emission Unit Description</b>	<b>Fuel</b>	<b>Rated Capacity</b>	<b>Construction Permits</b>
3-UUE-1	3-UUE	#5 Standby Generator	Diesel	115.4 gal./hr	94-A-042
4-UUE-1	4-UUE	#6 Standby Generator	Diesel	115.4 gal./hr	94-A-043
5-UUE-1	5-UUE	#7 Standby Generator	Diesel	115.4 gal./hr	94-A-044
6-UUE-1	6-UUE	#8 Standby Generator	Diesel	115.4 gal./hr	94-A-045
7-UUE-1	7-UUE	#9 Standby Generator	Diesel	115.4 gal./hr	94-A-046
8-UUE-1	8-UUE	#10 Standby Generator	Diesel	115.4 gal./hr	94-A-047

## **Applicable Requirements**

### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*Emissions at 92% of maximum full load from these emission points shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: PM-10

Emission Limit(s): 1.11 lb/hr and 0.88 TPY

Authority for Requirement: Iowa DNR Construction Permits 94-A-042 through 94-A-047

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 0.81 lb/hr and 0.65 TPY

Authority for Requirement: Iowa DNR Construction Permits 94-A-042 through 94-A-047

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)

Emission Limit(s): 48.94 lb/hr and 38.91 TPY

Authority for Requirement: Iowa DNR Construction Permit 94-A-042 through 94-A-047

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit(s): 0.66 lb/hr and 0.53 TPY

Authority for Requirement: Iowa DNR Construction Permit 94-A-042 through 94-A-047

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 32.85 lb/hr and 26.11 TPY

Iowa DNR Construction Permit 94-A-042 through 94-A-047

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Hours of operation: Operation of these sources shall not exceed the following:

1. 400 hours per twelve-month period.
2. 1590 hours per twelve-month period total for standby generators #5, #6, #7, #8, #9, and #10.

Process throughput:

1. No person shall allow, cause or permit the combustion of number 1 or number 2 fuel oil exceeding a sulfur content of 0.5 percent by weight.

Authority for Requirement: 567 IAC 23.3(3)"b"(1)

2. These units shall not operate at over 92% of maximum full load.
3. These units shall not operate at over 1,500 Kilowatt hours of power output each.

Authority for Requirement: Iowa DNR Construction Permits 94-A-042 to 94-A-047

Reporting & Record keeping:

1. The facility shall monitor the percent of sulfur by weight in the fuel oil as delivered. The documentation may be vendor supplied or facility generated.

Authority for Requirement: 567 IAC 23.3(3)"b"(1)

2. An approved hour meter shall be installed on each generator to document hours of operation. Records of the hours of operation shall be available to IDNR inspection personnel upon request and shall be kept for a period of five (5) years from the date of recording.

Authority for Requirement: Iowa DNR Construction Permits 94-A-042 to 94-A-047

**Source Emission Characteristics**

*These sources shall be connected to the stacks designated below.*

Stacks 3-UUE-1 through 8-UUE-1

Height: 42 feet

Size: 16 inches diameter

Flow Rate: 6,021 scfm at full load

Temperature: 870 °F at full load

Vertical, Unobstructed Discharge Required: Yes ☐ No ☒

Authority for Requirement: Iowa DNR Construction Permits 94-A-042 through 94-A-047

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

**Emission Point ID Number: 4-PXP-1F**

Associated Equipment

Associated Emission Unit ID Numbers: 4-PXP

Emissions Control Equipment ID Number: 27-ESW

Emissions Control Equipment Description: Water Table

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**Emission Unit Description**

Emission Unit vented through this Emission Point: 4-PXP

Emission Unit Description: Plasma Punch-16263

Raw Material/Fuel: Steel

Rated Capacity: 100 in/min

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

*See Fugitive Emissions in Plant-Wide Conditions.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"



## **Emission Point ID Number: 5-DWA-1**

### Associated Equipment

Associated Emission Unit ID Numbers: 5-DWA

Emissions Control Equipment ID Number: 7-EFC

Emissions Control Equipment Description: Cartridge Filter Baghouse

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### **Emission Unit Description**

Emission Unit vented through this Emission Point: 5-DWA

Emission Unit Description: 314-X1E Rework Weld Booth

Raw Material/Fuel: Welding Rod

Rated Capacity: 5.03 lb/hr

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 20 %

Authority for Requirement: Iowa DNR Construction Permit 98-A-931  
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 98-A-931  
567 IAC 23.3(2)"a"

#### **Source Emission Characteristics**

*This equipment shall be connected to the stack specified below.*

Stack Height: 40.3 feet

Stack Diameter: 12 inches

Exhaust Flow Rate: 1,000 scfm

Exhaust Temperature: 70 °F

Vertical, Unobstructed Discharge Required: Yes ☐ No ☒

Authority for Requirement: Iowa DNR Construction Permit 98-A-931

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

**Emission Point ID Number: C6-PXF-1F**

Associated Equipment

Associated Emission Unit ID Numbers: 6-PXF

Emissions Control Equipment ID Number: 5-EFC

Emissions Control Equipment Description: Cartridge Filter Baghouse

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**Emission Unit Description**

Emission Unit vented through this Emission Point: 6-PXF

Emission Unit Description: G2 Flame Cut-15728 (Six Torches)

Raw Material/Fuel: Natural Gas

Rated Capacity: 0.090 Mcf/hr

**Applicable Requirements**

**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

*See Fugitive Emissions in Plant-Wide Conditions.*

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

## Emission Point ID Numbers: See Table: Bulk Storage Tanks

### Associated Equipment

Associated Emission Unit ID Number: See Table: Bulk Storage Tanks

## Emission Unit Descriptions

**Table: Bulk Storage Tanks**

Emission Point Number	Emission Unit Number	Emission Unit Description	Raw Materials	Rated Capacity (gal)	Construction Permit
1-PBT-1	1-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-508
2-PBT-1	2-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-509
3-PBT-1	3-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-510
4-PBT-1	4-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-511
5-PBT-1	5-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-512
6-PBT-1	6-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-513
7-PBT-1	7-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-514
8-PBT-1	8-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-515
9-PBT-1	9-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-516
10-PBT-1	10-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-517
11-PBT-1	11-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-518
12-PBT-1	12-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-519
13-PBT-1	13-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-520
14-PBT-1	14-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-521
15-PBT-1	15-PBT	Bulk Storage Tank	Diesel or Lubricating Oil	10,000 gallons	00-A-522
16-PBT-1	16-PBT	Bulk Storage Tank	Ethylene Glycol	10,000 gallons	00-A-523

## Applicable Requirements

### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from these emission points shall not exceed the levels specified below.*

There are no emission limits at this time.

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

#### Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. These records shall demonstrate compliance with all applicable operating limits. Records shall be legible and maintained in an orderly manner.

1. Record the throughput of the bulk storage tanks on a monthly basis with a rolling 12-month total.
2. Maintain on site MSDS for material stored in the storage tanks.

Authority for Requirement: Iowa DNR Construction Permits 00-A-508 through 00-A-523

**Emission Point Characteristics**

*These emission points shall conform to the specifications listed below.*

Stacks 1-PBT-1 through 16-PBT-1

Stack Height (feet from the ground): 22.5 feet

Exhaust Flow Rate (scfm): Working Breathing Loss

Exhaust Temperature (°F): Ambient

Stack Opening (inches, dia.): 3 inches

Discharge Style: Horizontal

Authority for Requirement: Iowa DNR Construction Permits 00-A-508 through 00-A-523

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

## **Emission Point ID Number: 2-PWA-1**

### Associated Equipment

Associated Emission Unit ID Numbers: 2-PWA

Emissions Control Equipment ID Number: 25-EFC

Emissions Control Equipment Description: Cartridge Filter Baghouse

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### **Emission Unit Description**

Emission Unit vented through this Emission Point: 2-PWA

Emission Unit Description: W5 Reclaim Weld Booth

Raw Material/Fuel: Welding Electrode

Rated Capacity: 5.03 lb./hr

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 03-A-163  
567 IAC 23.3(2)"d"

<sup>(1)</sup> Per DNR Air Quality Policy 3-b-08, Opacity Limits, an exceedance of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. The permit holder shall also file an "indicator opacity exceedance report" with the DNR field office and keep records as required in the policy. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 03-A-163  
567 IAC 23.3(2)"a"

#### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Control equipment parameters:

1. The control equipment shall be inspected and maintained according to manufacturer's specifications.

**Reporting & Record keeping:**

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

1. The owner or operator shall maintain a record of control equipment maintenance and inspection results.

Authority for Requirement: Iowa DNR Construction Permit 03-A-163

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height (feet): 41

Stack Diameter (inches): 10

Stack Exhaust Flow Rate (scfm): 2,000

Stack Temperature (°F): Ambient

Vertical, Unobstructed Discharge Required: Yes ☐ No ☒

Authority for Requirement: Iowa DNR Construction Permit 03-A-163

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"

## **Emission Point ID Number: 1-WTC-1**

### Associated Equipment

Associated Emission Unit ID Numbers: 1-WTC

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### **Emission Unit Description**

Emission Unit vented through this Emission Point: 1-WTC

Emission Unit Description: Solvent Still

Raw Material/Fuel: Methyl Amyl Ketone

Rated Capacity: 0.0009 lb./hr

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

There are no emission limits at this time.

#### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height (feet): 50

Stack Diameter (inches): 12

Stack Exhaust Flow Rate (acfm): 1,500<sup>(1)</sup>

Stack Temperature (°F): 75

Discharge Style: Vertical

Authority for Requirement: Iowa DNR Construction Permit 03-A-647

<sup>(1)</sup> The flowrate was incorrectly listed as 6,000 scfm in the construction permit.

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

#### **Periodic Monitoring Requirements**

*The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒**

**Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒**

Authority for Requirement: 567 IAC 22.108(3)"b"



## **IV. General Conditions**

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code chapter 22.

### **G1. Duty to Comply**

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 22.108(9)"a"*
2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. *567 IAC 22.105 (2)"h"(3)*
3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. *567 IAC 22.108 (1)"b"*
4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 22.108 (14)*
5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. *567 IAC 22.108 (9)"b"*

### **G2. Permit Expiration**

1. Except as provided in 567 IAC 22.104, the expiration of this permit terminates the permittee's right to operate unless a timely and complete application has been submitted for renewal. Any testing required for renewal shall be completed before the application is submitted. *567 IAC 22.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall present or mail the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 7900 Hickman Rd, Suite #1, Urbandale, Iowa 50322, four or more copies of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

### **G3. Certification Requirement for Title V Related Documents**

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *567 IAC 22.107 (4)*

### **G4. Annual Compliance Certification**

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance

at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and the appropriate DNR Field office. *567 IAC 22.108 (15)"e"*

#### **G5. Semi-Annual Monitoring Report**

By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with *567 IAC 22.107(4)*. The semi-annual monitoring report shall be submitted to the director and the appropriate DNR Field office. *567 IAC 22.108 (5)*

#### **G6. Annual Fee**

1. The permittee is required under subrule *567 IAC 22.106* to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
  - a. Form 1.0 "Facility Identification";
  - b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
  - c. Form 5.0 "Title V annual emissions summary/fee"; and
  - d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
  - a. Form 1.0 "Facility Identification";
  - b. Form 5.0 "Title V annual emissions summary/fee";
  - c. Part 3 "Application certification."
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in *567 IAC 22.115(1)"d"*.

#### **G7. Inspection of Premises, Records, Equipment, Methods and Discharges**

Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:

1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 22.108 (15)"b"*

#### **G8. Duty to Provide Information**

The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 22.108 (9)"e"*

#### **G9. General Maintenance and Repair Duties**

The owner or operator of any air emission source or control equipment shall:

1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 24.2(1)*

#### **G10. Recordkeeping Requirements for Compliance Monitoring**

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
  - a. The date, place and time of sampling or measurements
  - b. The date the analyses were performed.
  - c. The company or entity that performed the analyses.
  - d. The analytical techniques or methods used.
  - e. The results of such analyses; and
  - f. The operating conditions as existing at the time of sampling or measurement.
  - g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)
2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.
3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:
  - a. Comply with all terms and conditions of this permit specific to each alternative scenario.

- b. Maintain a log at the permitted facility of the scenario under which it is operating.
- c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

**G11. Evidence used in establishing that a violation has or is occurring.**

Notwithstanding any other provisions of these rules, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions herein.

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:
  - a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;
  - b. Compliance test methods specified in 567 Chapter 25; or
  - c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.
2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
  - a. Any monitoring or testing methods provided in these rules; or
  - b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

**G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification**

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Act, the permittee shall notify the department of this requirement. The plan shall be filed with all appropriate authorities by the deadline specified by EPA. A certification that this risk management plan is being properly implemented shall be included in the annual compliance certification of this permit. *567 IAC 22.108(6)*

**G13. Hazardous Release**

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 281-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in *567 IAC 131.2(2)*. *567 IAC Chapter 131-State Only*

**G14. Excess Emissions and Excess Emissions Reporting Requirements**

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review

of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

## 2. Excess Emissions Reporting

a. Oral Reporting of Excess Emissions. An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 25.1(6). An oral report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 25.1(1) ) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable visible emission standard by more than 10 percent opacity. The oral report may be made in person or by telephone and shall include as a minimum the following:

- i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and expected duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps being taken to remedy the excess emission.
- vi. The steps being taken to limit the excess emission in the interim period.

b. Written Reporting of Excess Emissions. A written report of an incident of excess emission shall be submitted as a follow-up to all required oral reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:

- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
- vi. The steps that were taken to limit the excess emission.
- vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. 567 IAC 24.1(1)-567 IAC 24.1(4)

3. Emergency Defense for Excess Emissions. For the purposes of this permit, an “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:

- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. The facility at the time was being properly operated;
- c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and
- d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. *567 IAC 22.108(16)*

#### **G15. Permit Deviation Reporting Requirements**

A deviation is any failure to meet a term, condition or applicable requirement in the permit. Reporting requirements for deviations that result in a hazardous release or excess emissions have been indicated above (see G13 and G14). Unless more frequent deviation reporting is specified in the permit, any other deviation shall be documented in the semi-annual monitoring report and the annual compliance certification (see G4 and G5). *567 IAC 22.108(5)"b"*

#### **G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations**

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)*

#### **G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification**

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:

- a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
- b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
- c. The changes are not modifications under any provisions of Title I of the Act and the

changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);

d. The changes are not subject to any requirement under Title IV of the Act.

e. The changes comply with all applicable requirements.

f. For such a change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:

i. A brief description of the change within the permitted facility,

ii. The date on which the change will occur,

iii. Any change in emission as a result of that change,

iv. The pollutants emitted subject to the emissions trade

v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.

vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and

vii. Any permit term or condition no longer applicable as a result of the change.

*567 IAC 22.110(1)*

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*

3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*

4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*

5. Aggregate Insignificant Emissions. The permittee shall not construct, establish or operate any new insignificant activities or modify any existing insignificant activities in such a way that the emissions from these activities no longer meet the criteria of aggregate insignificant emissions. If the aggregate insignificant emissions are expected to be exceeded, the permittee shall submit the appropriate permit modification and receive approval prior to making any change. *567 IAC 22.103(2)*

6. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

#### **G18. Duty to Modify a Title V Permit**

1. Administrative Amendment.

a. An administrative permit amendment is a permit revision that is required to do any of the following:

- i. Correct typographical errors
    - ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
    - iii. Require more frequent monitoring or reporting by the permittee; or
    - iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.
  - b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.
  - c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.
2. Minor Permit Modification.
- a. Minor permit modification procedures may be used only for those permit modifications that do any of the following:
    - i. Do not violate any applicable requirements
    - ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit.
    - iii. Do not require or change a case by case determination of an emission limitation or other standard, or increment analysis.
    - iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act.;
    - v. Are not modifications under any provision of Title I of the Act; and
    - vi. Are not required to be processed as significant modification.
  - b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
    - i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs.
    - ii. The permittee's suggested draft permit
    - iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of a minor permit modification procedures and a request that such procedures be used; and
    - iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).
  - c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this



change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify.

However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, existing permit terms and conditions it seeks to modify may subject the facility to enforcement action.

3. Significant Permit Modification. Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 22, including those for applications, public participation, review by affected states, and review by the administrator, and those requirements that apply to Title V issuance and renewal. *567 IAC 22.111-567 IAC 22.113* The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. *567 IAC 22.105(1)"a"(4)*

#### **G19. Duty to Obtain Construction Permits**

Unless exempted under 567 IAC 22.1(2), the permittee must not construct, install, reconstruct, or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, conditional permit, or permit pursuant to 567 IAC 22.8, or permits required pursuant to 567 IAC 22.4 and 567 IAC 22.5. Such permits shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source. *567 IAC 22.1(1)*

#### **G20. Asbestos**

The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when conducting any renovation or demolition activities at the facility. *567 IAC 23.1(3)"a", and 567 IAC 23.2*

#### **G21. Open Burning**

The permittee is prohibited from conducting open burning, except as may be allowed by 567 IAC 23.2. *567 IAC 23.2 except 23.2(3)"h"; 567 IAC 23.2(3)"h" - State Only*

#### **G22. Acid Rain (Title IV) Emissions Allowances**

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 22.108(7)*

#### **G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements**

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

- a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a

- class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
- b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
  - c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
  - d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.
2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:
- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
  - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
  - c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
  - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
  - e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
  - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.
3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,
5. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

#### **G24. Permit Reopenings**

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*
2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as

practicable, but not later than 18 months after the promulgation of such standards and regulations.

- a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
- b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to June 25, 1993.
- c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a", 567 IAC 22.108(17)"b"*

3. A permit shall be reopened and revised under any of the following circumstances:

- a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to June 25, 1993, provided that the reopening may be stayed pending judicial review of that determination;
- b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
- c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
- d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
- e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*

4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

#### **G25. Permit Shield**

Compliance with the conditions of this permit shall be deemed compliance with the applicable requirements included in this permit as of the date of permit issuance.

This permit shield shall not alter or affect the following:

1. The provisions of section 303 of the Act (emergency orders), including the authority of the administrator under that section;
2. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
3. The applicable requirements of the acid rain program, consistent with section 408(a) of the Act;

4. The ability of the department or the administrator to obtain information from the facility pursuant to section 114 of the Act. *567 IAC 22.108 (18)*

**G26. Severability**

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 22.108 (8)*

**G27. Property Rights**

The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 22.108 (9)"d"*

**G28. Transferability**

This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought to determine transferability of the permit. *567 IAC 22.111 (1)"d"*

**G29. Disclaimer**

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. *567 IAC 22.3(3)"c"*

**G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification**

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with an applicable requirement. For the department to consider test results a valid demonstration of compliance with applicable rules or a permit condition, such notice shall be given. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. Unless specifically waived by the department's stack test contact, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. The department may accept a testing protocol in lieu of a pretest meeting. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

For paint booths which were previously tested at less than maximum continuous output, re-testing will be required if there is an increase in average monthly paint flow for three consecutive months greater than 20% (relative to the maximum paint application rate) over the baseline flow set by the most recent emission testing. Re-testing of the source must be done within 60 days following the end of the third consecutive month above this threshold.

Stack test notifications, reports and correspondence shall be sent to:

Stack Test Review Coordinator  
Iowa DNR, Air Quality Bureau  
7900 Hickman Road, Suite #1  
Urbandale, IA 50322  
(515) 242-6001

Within Polk and Linn Counties, stack test notifications, reports and correspondence shall also be directed to the supervisor of the respective county air pollution program.

*567 IAC 25.1(7)"a", 567 IAC 25.1(9)*

### **G31. Prevention of Air Pollution Emergency Episodes**

The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons.

*567 IAC 26.1(1)*

### **G32. Contacts List**

The current address and phone number for reports and notifications to the EPA administrator is:

Chief of Air Permits  
EPA Region 7  
Air Permits and Compliance Branch  
901 N. 5<sup>th</sup> Street  
Kansas City, KS 66101  
(913) 551-7020

The current address and phone number for reports and notifications to the department or the Director is:

Chief, Air Quality Bureau  
Iowa Department of Natural Resources  
7900 Hickman Road, Suite #1  
Urbandale, IA 50322  
(515) 242-5100

Reports or notifications to the DNR Field Offices or local programs shall be directed to the supervisor at the appropriate field office or local program. Current addresses and phone numbers are:

#### **Field Office 1**

909 West Main – Suite 4  
Manchester, IA 52057  
(563) 927-2640

#### **Field Office 2**

P.O. Box 1443  
2300-15th St., SW  
Mason City, IA 50401  
(641) 424-4073

#### **Field Office 3**

1900 N. Grand Ave.  
Spencer, IA 51301  
(712) 262-4177

#### **Field Office 4**

1401 Sunnyside Lane  
Atlantic, IA 50022  
(712) 243-1934

**Field Office 5**

401 SW 7<sup>th</sup> Street, Suite I  
Des Moines, IA 50309  
(515) 725-0268

**Field Office 6**

1023 W. Madison  
Washington, IA 52353-1623  
(319) 653-2135

**Polk County Public Health Dept.**

Air Quality Division  
5885 NE 14th St.  
Des Moines, IA 50313  
(515) 286-3351

**Linn County Public Health Dept.**

Air Pollution Control Division  
501 13th St., NW  
Cedar Rapids, IA 52405  
(319) 892-6000

# **Appendix**

**IDNR Air Quality Policy 3-b-08 (Opacity Limits)**

1998 NOV 13 4

IOWA DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION

POLICY/PROCEDURE STATEMENT

<b>TOPIC:</b> <u>Opacity Limits</u>
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**Policy Procedure Number:**    3-b-08

**Replaces Number:**    None

**Date:**

**Effective Date:**    November 12, 1998

**Preparer:**    David Phelps

**Reviewer:**

**Approval:**    **Bureau Chief:** Peter Hamlin

**Date:**    11/12/98

**Division Administrator:** Allan Stokes

**Date:**    11/12/98

**Applicable Code of Iowa or Iowa Administrative Code Rule:**    23.3(2)d

**“No person shall allow, cause or permit the emission of visible air contaminants into the atmosphere from any equipment, internal combustion engine, premise fire, open fire or stack, equal to or in excess of 40 percent opacity or that level specified in a construction permit, except as provided below and in 567-Chapter 24.”**

**REASON OR BACKGROUND**

The default opacity limit allowed by regulation is 40%. This limit was established with the original regulations in 1970. It is generally accepted that opacity greater than 40% was evidence of a mass emission standard exceedence. More recently, there have been requests from facilities for limits much lower than that allowed by the regulations, in some cases less than 0.01 gr/scf to which a 40% opacity limit does not correspond. Since opacity is used as an indicator of the particulate emission rate, listing an indicated potential problem opacity that is more in line with the mass emission rate is useful. In order to have the authority to set limits lower than 40%, subrule 23.3(2)d was changed. This change allows the department the ability to set opacity limits at a level that more closely corresponds to what would be observed by the source when operating in compliance with its mass emission rate.

Except in the case where a specific opacity limit is established by rule, it has been the general policy of the Department not to take action on opacity limits directly. Rather, if it is felt that a violation of the mass emission rate exists that is not attributable to some abnormal event, a stack test would be required to verify compliance. However, the Department reserves the right to use the results of formal opacity readings as evidence of an exceedence.



## DETAILS

It shall be the policy of the Department to list the default opacity as a permit condition and in addition an indicator opacity may be listed.

For ease of proving continual compliance a source may request a 'no visible emissions' opacity limit which allows proof of compliance without having a certified opacity reading taken. In this case any visible emissions would be an exceedence.

The IDNR permit writer may list an opacity that will be a indicator of possible mass emission rate exceedence. If the permittee wishes, the recommended indicator opacity may be changed by demonstrating compliance with the mass emission rate during a stack test while emitting the new desired indicator opacity. If the tested mass emission rate is less than the permitted emission rate, then the desired indicator opacity may be set at a proportionally higher level than observed during the stack test.

If an opacity measurement, taken in accordance with an approved reference method for opacity, (generally USEPA Method 9 or 22) exceeds the indicator opacity then the facility will promptly investigate the source and make corrections. However, if after corrections are made the opacity continues to exceed the indicator opacity the Department may require additional proof to demonstrate compliance with the mass emissions limits.

### **Recommended indicator opacities shall be:**

<b>Grain Loading gr./scf</b>	<b>Recommended Indicator Opacity</b>
<0.01 gr./scf	non specified in permit *
0.01 to 0.06 gr./scf	10% Opacity
0.061 to 0.08 gr./scf	20% Opacity
0.081 to 0.1 gr./scf	25% Opacity

\* A line is added to the permit that states: "If visible emissions are observed other than start-up, shut-down, or malfunction, a stack test may be required to demonstrate compliance with the particulate standard."

If a source is a batch process the indicator opacity shall be based on the table above, but the opacity averaging period, for comparison to the indicator opacity, shall be the entire batch cycle. For purposes of comparison the indicator opacity readings shall be taken during the entire cycle and averaged.

Sources are also given the opportunity to set source specific limits to be coordinated with the initial compliance test. These may then be incorporated into the permit.

In all cases an exceedence of the indicator opacity will require the permittee to file an "indicator opacity exceedence report" to the IDNR regional office. The reporting requirements shall be:

*Oral report of excess indicator opacity.* An incident of excess indicator opacity (other than an incident of excess indicator opacity during a period of startup, shutdown, or cleaning) shall be reported to the appropriate regional office of the department within eight hours of, or at the start of the first working day following the onset of the of the incident. The reporting exemption for an incident of excess indicator opacity during startup and shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in subrule 25.1(6).

An oral report of excess indicator opacity is not required for a source with operational continuous monitoring equipment (as specified in subrule 25.1(1) if the incident of excess indicator opacity continues for less than 30 minutes and does not exceed the applicable visible emission standard by more than 10 percent opacity.

The oral report may be made in person or by telephone and shall include as a minimum the following:

- a) The identity of the equipment or source operation from which the excess indicator opacity originated and the associated stack or emission point.
- b) The estimated quantity of the excess indicator opacity.
- c) The time and expected duration of the excess indicator opacity.
- d) The cause of the excess indicator opacity.
- e) The steps being taken to remedy the excess indicator opacity.
- f) The steps being taken to limit the excess indicator opacity in the interim period.

*Written report of excess indicator opacity.* A written report of an incident of excess indicator opacity shall be submitted as a follow-up to all required oral reports to the department within seven (7) days of the onset of the upset condition, and shall include as a minimum the following:

- a) The identity of the equipment or source operation point from which the excess emission originate and the associated stack or emission point.
- b) The estimated quantity of the excess indicator opacity.
- c) The time and duration of the excess indicator opacity.
- d) The cause of the excess indicator opacity.
- e) The steps that were taken to remedy and to prevent the recurrence of the incident of excess indicator opacity.
- f) The steps that were taken to limit the excess indicator opacity.
- g) If the owner claims that the excess indicator opacity was due to malfunction, documentation to support this claim.

Exceptions to this policy:

- 1) In the case where a facility has an opacity limit established in an existing permit, no change will be made to that permit limit unless the permit is being modified for other purposes.
- 2) If the facility has a continuous opacity monitor, this policy shall not apply.
- 3) This policy shall not apply to opacity limits established in Prevention of Significant Deterioration (PSD) permits or permits that were established for maintenance plans for nonattainment areas.
- 4) This policy shall not apply where an opacity limit is established as an indication of hazardous air pollutants.

- 5) This policy shall not apply where an opacity limit is established by a rule, New Source Performance Standards (NSPS), National Emission Standards for Hazardous Air Pollutants (NESHAPS), etc.